

## ABSTRACT

A forging die production method comprising a cutting step which employs, as a cutting tool, a ball end mill having a surface which has undergone a hardening treatment and in which a forging die material is cut under conditions where a length of tool extension L (mm), radius R (mm) of a cutting edge of the ball end mill, spindle speed A (rpm) and feed rate B (mm/min) satisfy  $(B/A)^2 \times (L/(2 \times R)) = 0.01$  to 0.05. A forging die is produced through the forging die production method. A forged article is produced through forging by use of the produced forging die.